

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/502,062 02/10/2000		Alek C. Chen	19944.0044 4704		
26694	7590 02/27/2003			•	
VENABLE, BAETJER, HOWARD AND CIVILETTI, LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998			EXAMINER		
			MERLINO, AMANDA H		
			March 10, March 11		
			ART UNIT	PAPER NUMBER	
			2877		
		DATE MAIL ED: 02/27/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

		P.S.	
	Applicant(s)	1.0	]
	CHEN, ALEK C.		
	Art Unit		
	2877		
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y be tim	nely filed		
S from 1	s will be considered time! the mailing date of this c O (35 U.S.C. § 133). , may reduce any	ly. communication.	
	osecution as to th 53 O.G. 213.	ne merits is	
Exan	niner.		
e. Se	ee 37 CFR 1.85(a).		
pprov	ved by the Examin	er.	
19(a)	-(d) or (f).		
licatio	on No		
	d in this National	Stage	
eived	ı. ) (to a provisional	application	
19(6)	, tto a provisional	application).	

	ce Action Summary	Part of Paper No. 6					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No.  J.S. Patent and Trademark Office	) 5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)					
Attachment(s)	·						
15) Acknowledgment is made of a claim for don							
14)  Acknowledgment is made of a claim for dom a)  ☐ The translation of the foreign language							
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application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
<ul> <li>1. ☐ Certified copies of the priority documents have been received.</li> <li>2. ☐ Certified copies of the priority documents have been received in Application No.</li> </ul>							
a) All b) Some * c) None of:							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	reign priority under 25 LLC C 5 444	3(a) (d) or (f)					
Priority under 35 U.S.C. §§ 119 and 120	о водинитот.						
12) The oath or declaration is objected to by the	· ·						
If approved, corrected drawings are required		proved by the Examiner.					
Applicant may not request that any objection 11) The proposed drawing correction filed on _	_	• •					
10) The drawing(s) filed on is/are: a) a							
9) The specification is objected to by the Exar							
Application Papers							
8) Claim(s) are subject to restriction a	nd/or election requirement.						
7) ☐ Claim(s) <u>3, 4, 9, 15 and 16</u> is/are objected							
6)  Claim(s) <u>1,2,5-8,10-14 and 17-20</u> is/are rejected.							
5) Claim(s) is/are allowed.							
4a) Of the above claim(s) is/are with	ndrawn from consideration.						
4)☐ Claim(s) <u>1-20</u> is/are pending in the applic							
closed in accordance with the practice ur Disposition of Claims		1, 453 O.G. 213.					
3) Since this application is in condition for a	llowance except for formal matters	, prosecution as to the merits is					
2a)☐ This action is <b>FINAL</b> . 2b)⊠	This action is non-final.						
1) Responsive to communication(s) filed on	10 February 2000 .	•					
<ul> <li>Extensions of time may be available under the provisions of 37 Cl after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	on. a reply within the statutory minimum of thirty (30) teriod will apply and will expire SIX (6) MONTHS t statute, cause the application to become ABAND	days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).					
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION	ON.						
Period for Reply							
Th MAILING DATE of this communication							
	Amanda H Merlino	2877					
· Office Action Summary	09/502,062 Examiner	CHEN, ALEK C.  Art Unit					
t	09/502 062	CHEN MEK C					

Application No.

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## Specification

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

## Claim Objections

Claims 9 and 19-20 objected to because of the following informalities:

- a) in claim 9, "said first box structure" and "said second box structure" lacks antecedent basis
- b) on line 1 of claims 19 and 20, it appears that "method" should be replaced by "system."

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2, 5-8, 10-14, and 17-20 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Saitoh (5,285,259).

Saitoh et al teach of measuring position between a mask and a wafer comprising a first structure (18) with first gratings (121) and a second structure (19) with second gratings and exposing the structures to light and measuring a difference between a location in said first structure and a location in said second structure.

## Allowable Subject Matter

Claim 9 would be allowable if rewritten to overcome the objection as stated above in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 3, 4, and 15 and 16 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

As to claims 3, 4, 9, 15 and 16, the prior of record, taken alone or in combination, fails to disclose or render obvious a method and an apparatus for measuring gap comprising a mask with an internal and an external box structure wherein gratings are provided on the edges of the first and second structure, in combination with the rest of the limitations of claims 1 and 14 respectively.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Papers related to the application may be submitted to Group 2800 by Fax transmission. Papers should be faxed to Group 2800 via the PTO Fax Machine located in Crystal Plaza 4. The form of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Machine number is:

### 703-308-7722

If the applicant wishes to send a Fax dealing with a Proposed Amendment for discussion for a phone interview then the fax should:

- 1) Contain either the statement "DRAFT" or "PROPOSED AMENDMENT" on the Fax Cover Sheet; and
- 2) Should be unsigned by the attorney or agent. This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Amanda H. Merlino whose telephone number is (703) 305-3488. The examiner can be reached on Mondays and Thursdays only.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-0956.

Amanda H. Merlino **Patent Examiner** Art Unit 2877 February 20, 2003/ahm

> FRANK G. FONT SUPERVISORY PATENT

**EXAMINER** 

AL X